

# PATHWAY MAPK(ERK)

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# MAPK (ERK) 信号通路关键路径

MAPK (Mitogen-Activated Protein Kinase) 是一类以丝氨酸/苏氨酸/脯氨酸 (Serine/Threonine/Proline) 残基为底物的激酶。它们在细胞内广泛参与调控多种生物学过程，包括细胞增殖、细胞分化、细胞运动、细胞应激反应等。在细胞生理过程中，MAPK信号通路有多个分支，其中最常研究的是ERK (Extracellular Signal-Regulated Kinase)、JNK (c-Jun N-terminal Kinase) 和p38 MAPK。每个分支都在不同的细胞生理过程中发挥重要作用。

## ERK / ERK5

ERK (外源性信号调节激酶) 是一种蛋白激酶，全称为 Extracellular Signal-Regulated Kinase，参与细胞的内在信号传导网络，调控细胞生长、增殖、分化和存活等多种生物学过程。它被广泛研究，并且在多种细胞信号通路中都发挥重要作用。ERK的活性调节通常涉及受体激活、激酶级联反应和核内转录因子的调控。当细胞表面的受体被激活时，ERK会被磷酸化，从而激活下游的调节蛋白。这一级联反应通过启动一系列的细胞内信号传导，最终导致细胞的相应生物学效应。

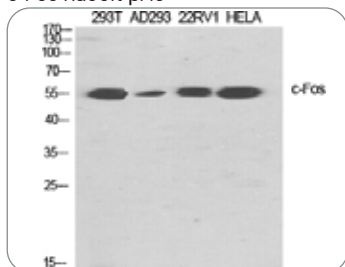
ERK5 是一种丝氨酸/苏氨酸激酶，在细胞内参与多种生物学过程的调控，包括细胞增殖、分化、存活和迁移等。与其他 ERK 家族成员相比，ERK5 的结构和功能略有不同。ERK5 信号传导途径通常包括细胞膜上的受体激活、激酶级联反应和核内转录因子的激活。ERK5 通过调控多个下游效应器蛋白的磷酸化状态，从而影响细胞的生物学行为。研究发现，ERK5 在多种疾病中发挥重要作用，包括癌症、心血管疾病和神经退行性疾病等。因此，ERK5 被视为潜在的治疗靶点，针对 ERK5 的药物研发也成为一个研究热点。

### MAPK (ERK) 通路 · 相关靶标



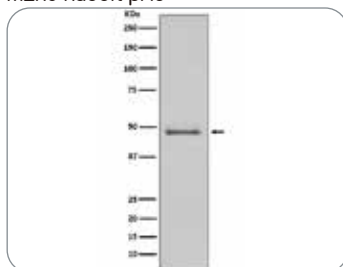
靶标	产品货号	产品名称	反应种属	应用
c-Fos	340249	c Fos Rabbit pAb	Human,Mouse,Rat	ICC/IF, WB, IHC-F, IHC-P, ELISA
	200960	c Fos (7D6) Mouse mAb	Human, Rat, Monkey	WB
DUSP6/MKP3	R381008	DUSP6 Rabbit mAb	Human, Mouse, Rat	WB, IHC-P, ICC/IF, IP, FC
	R380696	MEK1 Rabbit mAb	Human, Mouse, Rat, Cow, Dog	WB, IHC-P, ICC/IF, IP, FC
MEK1/2	R24949	MEK1/2 Rabbit mAb	Human, Mouse, Rat	WB, IHC-F, IHC-P, ICC/IF, IP
	380797	MEK1/2 Rabbit pAb	Human, Mouse, Rat	WB, IHC-P, ICC/IF, IP
	381422	MEK5 Rabbit pAb	Human	WB, ICC, IF
MEK5	220959	MEK5 (IF9) Mouse mAb	Human, Rat	WB
	R24199	ELK1 Rabbit mAb	Human	WB, IHC-P, IP, ChIP
ERK1/2	201245-4A4	ERK1/2 (4A4) Mouse mAb	Human, Mouse, Rat	WB
	343830	ERK1/2 Rabbit pAb	Human, Mouse, Rat	ICC/IF, WB, IHC-F, IHC-P, ELISA
	310065	Phospho-ERK1/2 (Tyr204/Tyr187) Rabbit pAb	Human, Mouse, Rat	WB, IHC-P, ICC/IF
	301245	Phospho-ERK1/2 (Thr202/Tyr204)/(Thr185/Tyr187) Rabbit pAb	Human, Mouse, Rat	WB
ERK5	R381421	ERK5 Rabbit mAb	Human, Mouse, Rat	WB, ICC/IF, IP, FC
	120601	ERK5 Rabbit pAb	Human, Mouse, Rat	WB, IHC-P
	380931	BRAF Rabbit pAb	Human, Mouse, Rat	WB, IHC-P, IP, FC
B-Raf	200532-4E1	BRAF (4E1) Mouse mAb	Human, Mouse	WB
	R22937	Phospho-BRAF (Thr401) Rabbit mAb	Human, Mouse, Rat	WB, IP
	R25538	Raf1 Rabbit mAb	Human, Mouse, Rat	WB, ICC/IF
c-Raf	347271	Raf1 Rabbit pAb	Human, Mouse, Rat	ICC/IF, WB, IHC-F, IHC-P, ELISA
	R25537	Phospho-Raf1 (Ser259) Rabbit mAb	Human, Mouse, Rat	WB, IHC-P
	201134	RSK1 p90 (6B9) Mouse mAb	Human, Mouse, Monkey	WB, IP
p90 RSK	R25632	RSK1 p90 Rabbit mAb	Human	WB, IHC-P, IP
	R27250	RSK2 Rabbit mAb	Human, Hamster	WB, IHC-P, IP
	R26167	RSK3 Rabbit mAb	Human, Hamster	WB, IHC-F, IHC-P, ICC/IF, IP
	R26358	Phospho-RSK1 p90 (Ser380) Rabbit mAb	Mouse, Hamster	WB, IP
	R22941	Phospho-RSK1 p90 (Thr359/Ser363) Rabbit mAb	Human, Mouse, Rat	WB, IP

#340249  
c-Fos Rabbit pAb



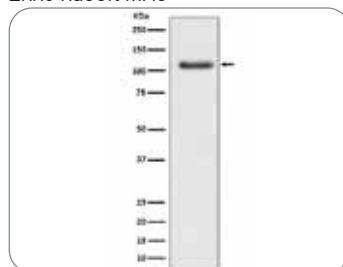
Western blot analysis of c-Fos in various lysates using c-Fos antibody.

#381422  
MEK5 Rabbit pAb



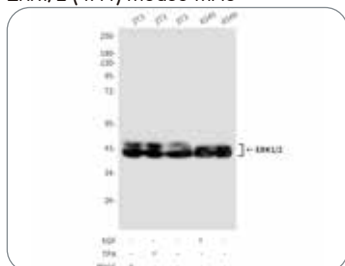
Western blot analysis of MEK5 in HeLa lysates using MEK5 antibody.

#R381421  
ERK5 Rabbit mAb



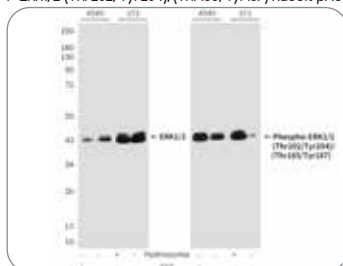
Western blot analysis of ERK5 in HeLa lysates using ERK5 antibody.

#201245-4A4  
ERK1/2 (4A4) Mouse mAb



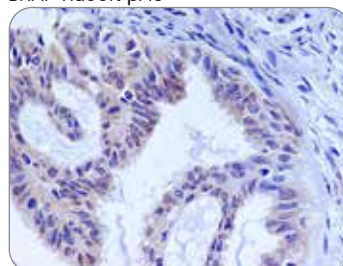
Western blot analysis of ERK1/2 (4A4) in EGF-treated A549, PDGF-treated 3T3 and TPAtreated 3T3 lysates using ERK1/2 (4A4) antibody.

#301245  
P-ERK1/2 (Thr202/Tyr204)/(Thr185/Tyr187) Rabbit pAb



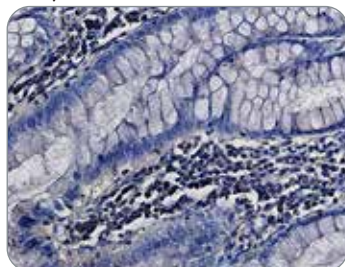
Western blot analysis of Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) in EGF treated A549 and Hydroxyureatreated NIH/3T3 lysates, using Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) antibody (right) and p44/42 MAPK (Erk1/2) antibody (left).

#380931  
BRAF Rabbit pAb



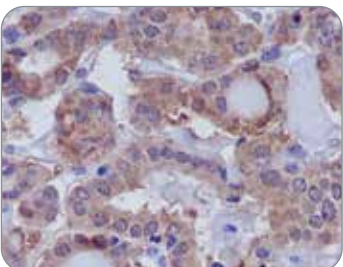
Immunohistochemistry analysis of paraffin-embedded Human ovarian cancer using BRAF antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

#R24949  
MEK1/2 Rabbit mAb



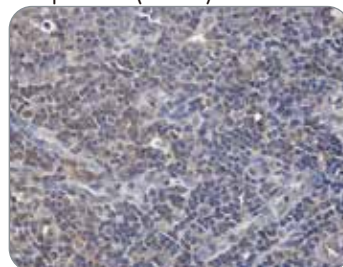
Immunohistochemistry analysis of paraffin-embedded Human colon cancer using MEK1/2 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

#R381008  
DUSP6 Rabbit mAb



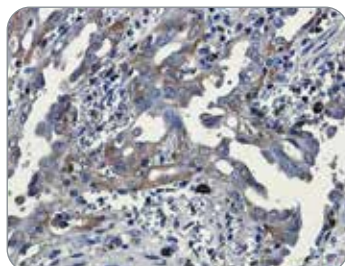
Immunohistochemistry analysis of paraffin-embedded Human thyroid using DUSP6 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

#R25537  
Phospho-Raf1 (Ser259) Rabbit mAb



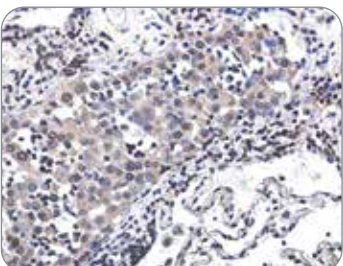
Immunohistochemistry analysis of paraffin-embedded Human tonsil using Raf1 (Phospho-Ser259) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

#R26167  
RSK3 Rabbit mAb



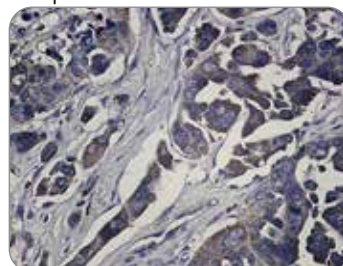
Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using RSK3 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

#R27250  
RSK2 Rabbit mAb



Immunohistochemistry analysis of paraffin-embedded Human lung cancer using RSK2/MAPKAP Kinase 1b antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

#R25632  
RSK1 p90 Rabbit mAb



Immunohistochemistry analysis of paraffin-embedded Human Cholangiocarcinoma using RSK1 p90 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

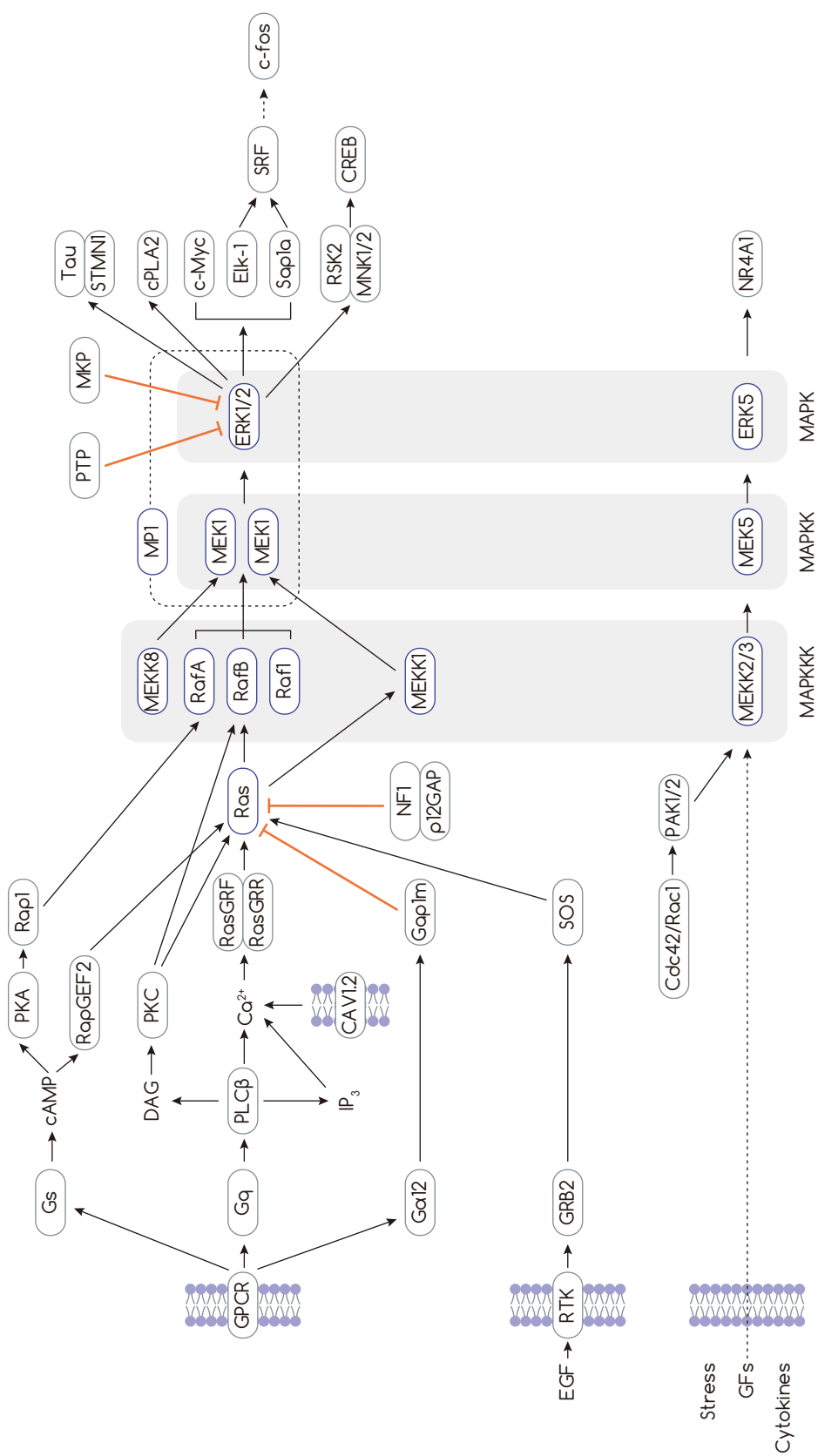


图1：MAPK级联